RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10 581	4	13
Source:	IF	r	2
Date Processed by STIC:	6	114	106
•			

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 06/14/2006
PATENT APPLICATION: US/10/581,413 TIME: 10:28:31

Laput Set : A:\5.1295 Sequence Listing.txt
Output Set: N:\CRF4\06142006\J581413.raw

```
3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.
     5 <120> TITLE OF INVENTION: Pharmaceutical composition comprising recombinant antibody
against CCR4
     7 <130> FILE REFERENCE: 00005.001295
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/581,413
C--> 9 <141> CURRENT FILING DATE: 2006-06-02
     9 <150> PRIOR APPLICATION NUMBER: JP04/018430
     10 <151> PRIOR FILING DATE: 2004-12-03
     12 <150> PRIOR APPLICATION NUMBER: JP2003-406590
                                                                                    2 ...
    13 <151> PRIOR FILING DATE: 2003-12-04
     15 <150> PRIOR APPLICATION NUMBER: JP2004-155141
    16 <151> PRIOR FILING DATE: 2004-05-25
    18 <160> NUMBER OF SEQ ID NOS: 18
    20 <170> SOFTWARE: PatentIn Ver. 2.1
    22 <210> SEQ ID NO: 1
    23 <211> LENGTH: 360
    24 <212> TYPE: PRT
     25 <213 > ORGANISM: Homo sapiens
     27 <400> SEQUENCE: 1
     28 Met Asn Pro Thr Asp Ile Ala Asp Thr Thr Leu Asp Glu Ser Ile Tyr
                                             10
     31 Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys Pro Cys Thr Lys Glu
    33 Gly Ile Lys Ala Phe Gly Glu Leu Phe Leu Pro Pro Leu Tyr Ser Leu
                                     40
    36 Val Phe Val Phe Gly Leu Leu Gly Asn Ser Val Val Leu Val Leu
     37
                                                     60
                                 55
    39 Phe Lys Tyr Lys Arg Leu Arg Ser Met Thr Asp Val Tyr Leu Leu Asn
                             70
     42 Leu Ala Ile Ser Asp Leu Leu Phe Val Phe Ser Leu Pro Phe Trp Gly
                         85
                                             90
     45 Tyr Tyr Ala Ala Asp Gln Trp Val Phe Gly Leu Gly Leu Cys Lys Met
                    100
                                        105
    48 Ile Ser Trp Met Tyr Leu Val Gly Phe Tyr Ser Gly Ile Phe Phe Val
                                    120
               115
     51 Met Leu Met Ser Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe
                                                    140
                                135
     54 Ser Leu Arg Ala Arg Thr Leu Thr Tyr Gly Val Ile Thr Ser Leu Ala
                            150
                                                155
     57 Thr Trp Ser Val Ala Val Phe Ala Ser Leu Pro Gly Phe Leu Phe Ser
                        165
                                            170
                                                                 175
     60 Thr Cys Tyr Thr Glu Arg Asn His Thr Tyr Cys Lys Thr Lys Tyr Ser
                                        185
     63 Leu Asn Ser Thr Thr Trp Lys Val Leu Ser Ser Leu Glu Ile Asn Ile
```

RAW SEQUENCE LISTING DATE: 06/14/2006 PATENT APPLICATION: US/10/581,413 TIME: 10:28:31

Input Set : A:\5.1295 Sequence Listing.txt
Output Set: N:\CRF4\06142006\J581413.raw

```
64
           195
66 Leu Gly Leu Val Ile Pro Leu Gly Ile Met Leu Phe Cys Tyr Ser Met
       210
                          215
                                              220
69 Ile Ile Arg Thr Leu Gln His Cys Lys Asn Glu Lys Lys Asn Lys Ala
72 Val Lys Met Ile Phe Ala Val Val Leu Phe Leu Gly Phe Trp Thr
                  245
                                      250 255
75 Pro Tyr Asn Ile Val Leu Phe Leu Glu Thr Leu Val Glu Leu Glu Val
76 260
                                  265
78 Leu Gln Asp Cys Thr Phe Glu Arg Tyr Leu Asp Tyr Ala Ile Gln Ala
79 275
                              280
                                                 285
81 Thr Glu Thr Leu Ala Phe Val His Cys Cys Leu Asn Pro Ile Ile Tyr
                          295
                                             300
84 Phe Phe Leu Gly Glu Lys Phe Arg Lys Tyr Ile Leu Gln Leu Phe Lys
                      310
                                         315
87 Thr Cys Arg Gly Leu Phe Val Leu Cys Gln Tyr Cys Gly Leu Leu Gln
                  325
                                     330
90 Ile Tyr Ser Ala Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr Met
               340
                                   345
                                          350
93 Asp His Asp Leu His Asp Ala Leu
          355 `
96 <210> SEQ ID NO: 2
97 <211> LENGTH: 28
98 <212> TYPE: PRT
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 2
102 Asn Pro Thr Asp Ile Ala Asp Thr Thr Leu Asp Glu Ser Ile Tyr Ser
103 1 5
                                        10
105 Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys Pro Cys
106
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 18
111 <212> TYPE: PRT
112 <213> ORGANISM: Homo sapiens
114 <400> SEQUENCE: 3
115 Asp Glu Ser Ile Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys
116
     1
118 Pro Cys
121 <210> SEQ ID NO: 4
122 <211> LENGTH: 15
123 <212> TYPE: PRT
124 <213> ORGANISM: Homo sapiens
126 <400> SEQUENCE: 4
127 Asp Glu Ser Ile Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 5
133 <212> TYPE: PRT
134 <213> ORGANISM: Mus musculus
```

RAW SEQUENCE LISTING DATE: 06/14/2006 PATENT APPLICATION: US/10/581,413 TIME: 10:28:31

Input Set : A:\5.1295 Sequence Listing.txt
Output Set: N:\CRF4\06142006\J581413.raw

```
136 <400> SEQUENCE: 5
137 Asn Tyr Gly Met Ser
138 1
141 <210> SEQ ID NO: 6
142 <211> LENGTH: 17
143 <212> TYPE: PRT
144 <213> ORGANISM: Mus musculus
146 <400> SEQUENCE: 6
147 Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro Asp Ser Val Lys
148 1
                   5
                                        10
150 Gly
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 10
155 <212> TYPE: PRT
156 <213> ORGANISM: Mus musculus
158 <400> SEQUENCE: 7
159 His Ser Asp Gly Asn Phe Ala Phe Gly Tyr
160 1
                                        10
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 16
165 <212> TYPE: PRT
166 <213> ORGANISM: Mus musculus
168 <400> SEQUENCE: 8
169 Arg Ser Ser Arg Asn Ile Val His Ile Asn Gly Asp Thr Tyr Leu Glu
173 <210> SEQ ID NO: 9
174 <211> LENGTH: 7
175 <212> TYPE: PRT
176 <213> ORGANISM: Mus musculus
178 <400> SEQUENCE: 9
179 Lys Val Ser Asn Arg Phe Ser
180 1
183 <210> SEQ ID NO: 10
184 <211> LENGTH: 9
185 <212> TYPE: PRT
186 <213> ORGANISM: Mus musculus
188 <400> SEQUENCE: 10
189 Phe Gln Gly Ser Leu Leu Phe Trp Thr
193 <210> SEQ ID NO: 11
194 <211> LENGTH: 138
195 <212> TYPE: PRT
196 <213> ORGANISM: Mus musculus
198 <400> SEQUENCE: 11
199 Met Asn Leu Gly Leu Ser Leu Ile Phe Leu Ala Leu Ile Leu Lys Gly
200 1
                    5
                                        10
202 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Asp Leu Met Lys
205 Pro Gly Gly Ser Leu Lys Ile Ser Cys Ala Ala Ser Gly Phe Ile Phe
```

RAW SEQUENCE LISTING DATE: 06/14/2006
PATENT APPLICATION: US/10/581,413 TIME: 10:28:31

Input Set : A:\5.1295 Sequence Listing.txt
Output Set: N:\CRF4\06142006\J581413.raw

35 40 206 208 Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Thr Pro Asp Met Arg Leu 55 211 Glu Trp Val Ala Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro 75 70 212 65 214 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn 85 217 Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Gly Ile 100 105 220 Tyr Tyr Cys Gly Arg His Ser Asp Gly Asn Phe Ala Phe Gly Tyr Trp 221 115 120 223 Gly Arg Gly Thr Leu Val Thr Val Ser Ala 135 130 227 <210> SEQ ID NO: 12 228 <211> LENGTH: 132 229 <212> TYPE: PRT 230 <213> ORGANISM: Mus musculus 232 <400> SEQUENCE: 12 233 Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala 10 . 5 234 1 15 236 Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val 237 20 239 Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Ile 240 35 40 242 Val His Ile Asn Gly Asp Thr Tyr Leu Glu Trp Tyr Leu Gln Arg Pro 243 55 60 245 Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser 70 248 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr 85 90 251 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys 100 105 254 Phe Gln Gly Ser Leu Leu Pro Trp Thr Phe Gly Gly Gly Thr Arg Leu 115 120 257 Glu Ile Arg Arg 258 130 261 <210> SEQ ID NO: 13 262 <211> LENGTH: 119 263 <212> TYPE: PRT 264 <213> ORGANISM: Artificial Sequence 266 <220> FEATURE: 267 <223> OTHER INFORMATION: Synthetic peptide 269 <400> SEQUENCE: 13 270 Glu Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Arg 271 273 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Asn Tyr 20 25 276 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 277 35

RAW SEQUENCE LISTING DATE: 06/14/2006 PATENT APPLICATION: US/10/581,413 TIME: 10:28:31

Input Set : A:\5.1295 Sequence Listing.txt
Output Set: N:\CRF4\06142006\J581413.raw

279 Ala Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro Asp Ser Val 55 282 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 75 70 285 Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 288 Ala Arg His Ser Asp Gly Asn Phe Ala Phe Gly Tyr Trp Gly Gln Gly 105 100 291 Thr Leu Val Thr Val Ser Ser 115 292 295 <210> SEQ ID NO: 14 296 <211> LENGTH: 119 297 <212> TYPE: PRT 298 <213> ORGANISM: Artificial Sequence 300 <220> FEATURE: 301 <223> OTHER INFORMATION: Synthetic peptide 303 <400> SEQUENCE: 14 304 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly .15 305 1 ... 5 10 307 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr 25 308 20 310 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 313 Ser Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro Asp Ser Val 314 50 60 . 55 316 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 75 319 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 85 322 Ala Arg His Ser Asp Gly Asn Phe Ala Phe Gly Tyr Trp Gly Gln Gly 100 105 325 Thr Leu Val Thr Val Ser Ser 115 326 329 <210> SEQ ID NO: 15 330 <211> LENGTH: 112 331 <212> TYPE: PRT 332 <213> ORGANISM: Artificial Sequence 334 <220> FEATURE: 335 <223> OTHER INFORMATION: Synthetic peptide 337 <400> SEQUENCE: 15 338 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly 341 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Ile Val His Ile 20 344 Asn Gly Asp Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser 35 40 347 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro 350 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile

VERIFICATION SUMMARY

DATE: 06/14/2006

PATENT APPLICATION: US/10/581,413

TIME: 10:28:32

Input Set : A:\5.1295 Sequence Listing.txt Output Set: N:\CRF4\06142006\J581413.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date